

## DMS-4500

# Steel Strand, Uncoated Seven-Wire Low-Relaxation for Prestressed Concrete



Effective Date: **May 2022**

### 1. DESCRIPTION

This Specification governs the materials of steel strand, uncoated seven-wire low-relaxation for prestressed concrete and describes the qualification procedure for manufacturers to produce uncoated seven-wire steel strand for Department projects. Manufacturers must meet the requirements of this Specification. Seven-wire steel strand must be produced to the requirements of ASTM A 416.

### 2. MATERIAL PRODUCER LIST

The Materials and Tests Division (MTD) maintains the Material Producer List (MPL) of all qualified seven-wire steel strand-producing manufacturers. Only seven-wire steel strand produced by manufacturers appearing on the MPL, entitled "[Steel Strand, Uncoated Seven-Wire Low Relaxation for Prestressed Concrete](#)," can be used on Department projects.

### 3. QUALIFICATION PROCESS

3.1. **Qualification Request.** Submit a request for plant approval under DMS-4500 to [DMS\\_Prequel@txdot.gov](mailto:DMS_Prequel@txdot.gov).

Include the following information in **the request**:

- manufacturer name;
- physical and mailing addresses;
- contact person, title, phone number, and email address;
- types (sizes, grades, etc.) of seven-wire steel strand to be furnished; and
- **copy of current certificate of compliance for AASHTO's National Transportation Product Evaluation Program (NTPEP) Reinforcing Steel Technical Committee Work Plan.**

3.1.1. **Qualification.** **The Department will add approved seven-wire steel strand manufacturers to the MPL. Qualified manufacturers listed on the MPL must comply with AASHTO's NTPEP Committee Work Plan for Evaluation of Reinforcing Steel Manufacturer's and this Specification in order to maintain approval status. Qualified mills must also maintain and submit a current AASHTO-NTPEP certificate of compliance.**

3.2. **Random Inspection and Testing.** The Department reserves the right to **conduct audits of seven wire steel strand manufacturers, to sample materials for testing, and to perform random audits of documentation at any time to ensure compliance with this Specification. Department representatives may sample material from the manufacturer, the project site, and the warehouse throughout the qualification period to ensure compliance with this Specification.**

3.3. **Disqualification.** Any **qualified manufacturer found to be in violation of this Specification is subject to removal from the MPL and is prohibited from furnishing material to Department projects.**

Causes for disqualification include, but are not limited to:

- failure to comply with the requirements of this Specification;
- falsifying information on certified test reports; or
- failure to consistently produce seven-wire steel strand that meets the requirements of this Specification.

3.4. **Re-Qualification.** Disqualified manufacturers may begin the re-qualification process no earlier than 1 yr. from the date of removal from the MPL, or as determined by **MTD**.

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## 4. SHIPPING

4.1. **Strand Identification.** Affix identification tags on each coil or reel to include the following:

- strand manufacturer's name and location of manufacture;
- strand diameter;
- grade;
- modulus of elasticity;
- heat number;
- coil or reel number;
- coil or reel length and
- identification that the coil or reel was manufactured in the USA.

4.2. **Documentation Required with each Shipment.** Provide **with each shipment** a certified test report indicating the finished product meets the physical requirements of ASTM A 416 **and the latest provisions of Buy America as listed at 23 CFR 635.410**. Maintain copies of this documentation and make available to the Department upon request.

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## 5. ARCHIVED VERSIONS

Archived versions are available.